

FIG. 1 PRIOR ART

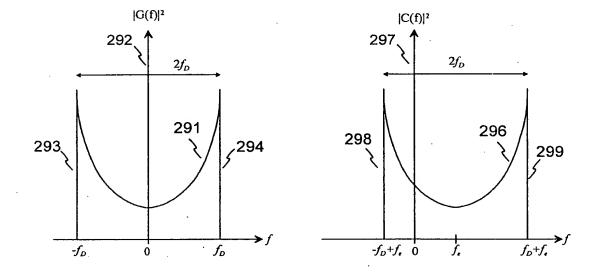


FIG. 2a

FIG. 2b

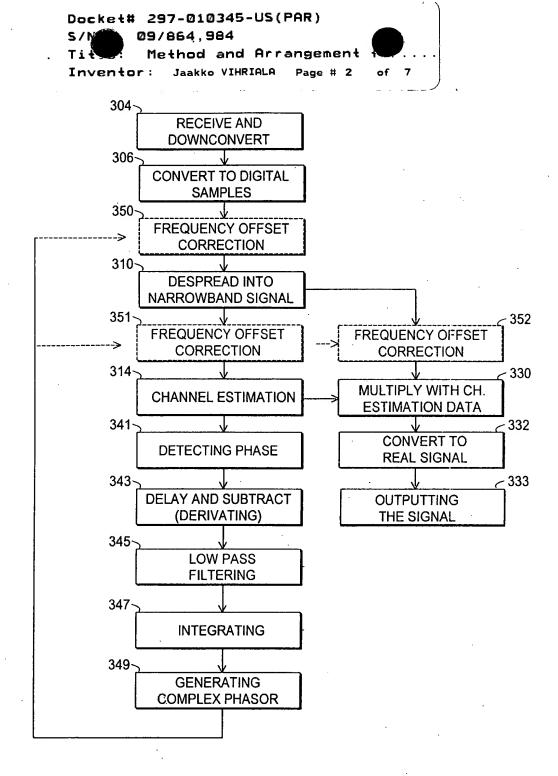


FIG. 3

09/864,984 Method and Arrangement Jaakko VIHRIALA Page # 3 of 7 404-RECEIVE AND **DOWNCONVERT** 406-CONVERT TO DIGITAL SAMPLES 410~ **DESPREAD INTO** NARROWBAND SIGNAL 414-430 MULTIPLY WITH CH. 1. CHANNEL ESTIMATION **ESTIMATION DATA** 441~ - 431 SUMMING TO OTHER **DETECTING PHASE INITIAL DECISIONS 432** 443~ **DELAY AND SUBTRACT CONVERT TO** (DERIVATING) **REAL SIGNAL** < 434 445~ **PERFORMING** SUMMING TO OTHER CONTROL VARIABLES f. A DECISION 449-**GENERATING COMPLEX PHASOR** 451~ - 452 **MULTIPLY MULTIPLY** 453~ **SUMMING** 454~ 2. CHANNEL ESTIMATION 460~ SIGNAL CORRECTION 461~ COMBINING WITH OTHER **FINAL DECISIONS** 462~ **CONVERT TO REAL SIGNAL** 463 FIG. 4 **OUTPUTTING** THE SIGNAL

Docket# 297-010345-US(PAR)

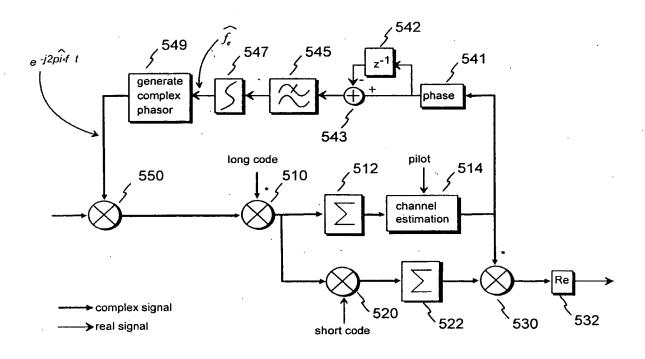


FIG. 5

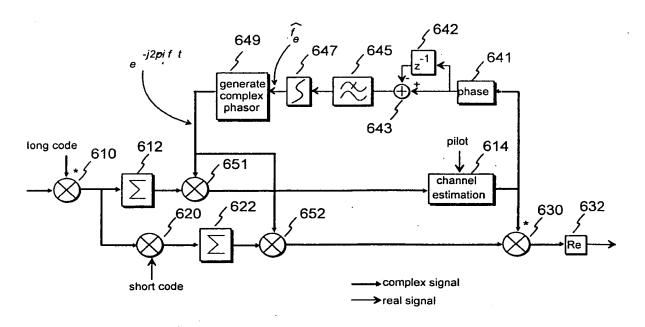
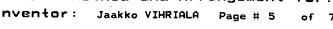


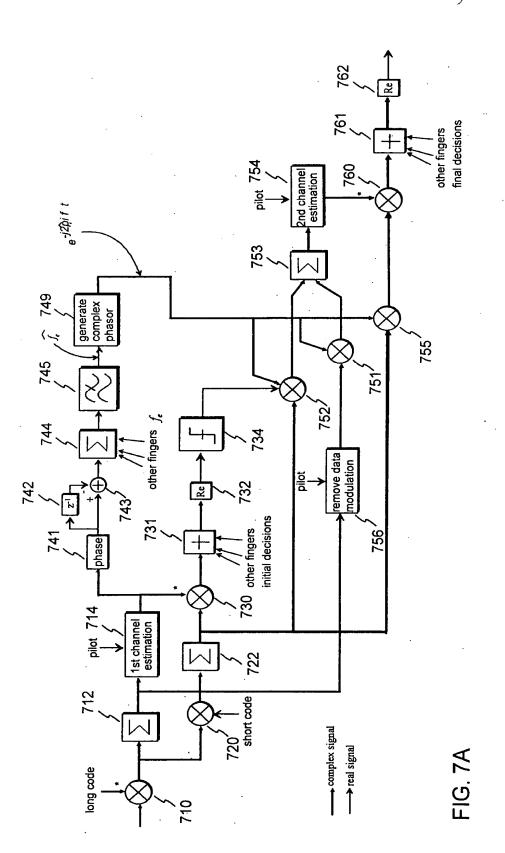
FIG. 6

Docket# 297-010345-US(PAR) S/N 09/864,984

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Inventor: Jaakko VIHRIALA Page # 6 of 7

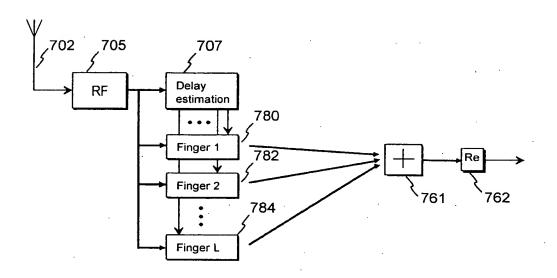


FIG. 7B

Docket# 297-010345-US(PAR)

S/ 09/864,984

Ti Method and Arrangement

Inventor: Jaakko VIHRIALA Page # 7 of 7

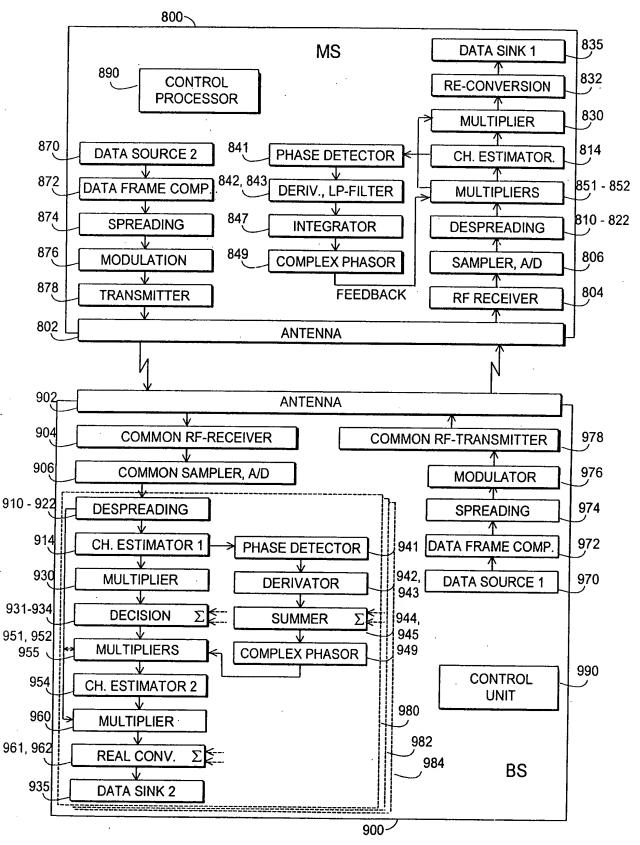


FIG. 8